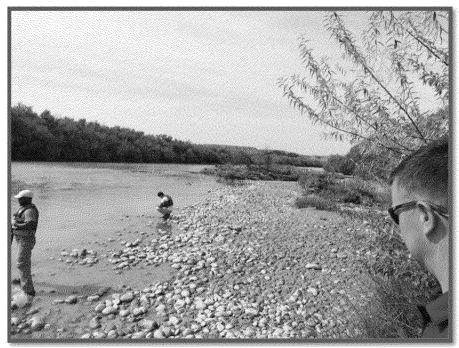
SITUATION REPORT

INCIDENT COMMAND POST GOLD KING
GOLD KING MINEIDENT RELEASE
U.S. ENVIRONMENTAL PROTECTION AGENCY





EPA Contractersting collsurface swater sample

Subject: EXECSUM / SITREP #27

Gold King **Ntinie**lent Release San uan J County, Colorado Latitude: 37.8945 **10**876884de:

From: Situation Unit, Incident Command Post Gold King

Date: 7 September 2015

Reporting Period 0700 6 September 2015 through 7052000 ember 2015

Website: www.epa.gov/goldkingmine



Exec. Sum/SITREP \$2015 Gold King Mine Release

ICP Gold King

For Internal Use Only

EXECUTIVE SUMMARY

Situation Summary

United States Environmental ProtectionincidentAgencyComma(NdS. P&RA) isGold King comprised U.S. &PA R&gions . and 9

Highlights, Key Updates/Changes

- · ICPGK finalized the Gold KingMine Stakeholders Notification Plan This lliwaslq stakeholders throughout the 8, 6, and entire watershed in Regions 9 any mine activities which could potentially heimpact final the plan watershed. exp**E**cted **EPA GKM** website. to the
- ICPGK continues to monitor relations with the Navajo Nation.

Objectives

- Ensure health and safety of the public and responders.
- Continue implementation of private wellies. sampling and water
- Establish strategocL exceeded private wells.
- Continue coordination with Federal, State, Tribal and local
- Continue management of mine water discharge.
- Continue mine dump and portal stabilization.
- Assess sediment impacts.
- Identify nciderit end points.
- Implement river alert and notification plan during mine site operate
- Explore real time monitoring options.
- Continue water and sediment sampling along the Animas
- Evaluate need for delivery on of Navaj feed Natifoom livestock

Command Emphasis

For the next opel@R@habmmandperiod, emphabie will be:

- Safety of responders and the public
- Visitors to the mine site are fing.required to go through
 - · Incident persconteneing Southern Uale l(Stallis) must be UT mesorbetred by
 - · All sampling operations in Navajo Nation must be conducted
 - Ensure information flow between ICP and Stakeholders

The metrics provided rthsient Sitquatintities Repreptorted rep for 6 in work September 2015. Press releases are presented in Attach**Metri**cs 1. table cells report text highlighted represent change/addition from in yellow а the previo

is



The

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historic

gold

ICP Gold King

mine

1.0 BACKGROUND

King

Mine

approximately 11,300 feet above mean sea level. The mine contributor of heavy metalse intto three Atrement RiCyreerek **GKM** workings have been inaccessible since 1995 when the 2015, estimated volume On August an of up to thre suddenly sedelearom the Gold dissolved metals was King Mine adit. This water discharged ir Cement Creek which feeds into the **Animas** River, and event The (larcaked DurangontinuesColorado) effects in assess and mitigat@he U.S. EPA continues sudfaite sva anterling Aseidimasent , RivfeonSan andof theuan

Colorado

is

Silverton,

and Cement Creek. Additionalsy, EPA continues to schedule sampling of private wells within a alluvial unrecoundings the .Animas River

(GKM)

near

2.0 RADIRUENS

2.1 Mine Operations

A summary of mine operations is presented below.

- securitivine. The atecurity for gate Gold was King installed Completed installation of the guard Köngt ine. Min the approximately 50 yards past addition (8 libs O ENPREDIM) g 9flocaseetht if needed. Automated is se beihingne. lime hopper used to dispen Diverting Gold ine Kingwater Red to and floreB) Sectrolitrag (ponds. Installed oil boom modified with felt liner act to energy flow of water through the R&B ponds.
- Monitoring of treatment at operatories I twice daily.
- Average flow rate 6246 gallons approximately mimettered ther(gpth) of 3.40 S.U. and treatment pH of 4.96 S.U.
- Continued construction of the p@daldstone Instalkedthing lin4ng in Pond

ICPGK finalized the Gold Stakeholders Thissand King Mine Alert pelxapp. Excite filt cation to posted to the **EPA** GKM website. The plan will Regions 8, 6 and that fould parentially mine impact related the The activities as hed. also includes "notification mine-only" related alert activitions in its current form will remain in effe₹he asPlanndelongis ainte address the first level of notification and informalizer on chatting. initial notification, all to responsible for the incident parties are assessing and determining notification. The plan is in adhuahæaht aĝ atta this Situation Report.

2.2 River Sampling

Operational activities fourface sediment sampling summarized belo&le water and quantities based **SCRIBE** datanubandstey assourance/invalithe are on the control (QA/QC) samples.



determined

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	Table 1	-Operations	Samp	oling Su	Summary	
	Matrix		U.S. Region	Qty. (6 Sep 2015)	Qty. (Cumulative)	
			8	7	392	
Surface	Water	Samples	6	9	330	
			9	0	239	
				16	961	
			8	5	154	
C = al:	Camandaa		6	9	343	
Sediment	Samples		9	0	192	
				9	689	

2.3 Private Wells / Fish Ponds / Sediment

2.3.1 Private Wells

that

the

Operational activities ivate for drinking water well sampling are summarized The assessment focus areparivate drifonking water wells nclude in those priegten d&inking i water wells located within 300 feet of the banks of the Animas River (including connected Baker's Bridge and the Coloaaskes/Shinesynt focus Mexicoarpaivatsetatefor between line. drinking water wells nclude in those privaten nking for wietler located within 500 Riwithrijn the affected the banks of waterways (Animas Stable Jua Animas River watershed . in There New has Mexicbeen sampling of no R9e.g U.S. E**Pø**n sawnepbles that Private have metals concentrations greater than the

and were collectoenth fprivate (MCLs) drinking water wells during the first sampling event we sampled second time to . In confirmRegion the 8, analytical serceconoudits roun а MCL collected Residefresm thtante htaaype exceedances hav given **by**oper were a drinkingrimaryThevaterMCWellwellexce For Region 6 there was , wchrieh phiavoite exceeded the Macrid leafdurther the State føfter assessment by

was

unrelated

to

the

GKM

A summary of private drinking presented wheelow, sampling

exceedance

	Table – Pri	v 2 ate	Or Liviniteg Saviephling		ng Sur	Summary		
	Matr	ix		U.S. Region	Qty. (6 Sep 2015)	Qty. (Cumulative)		
Private	Drinking	Sawapees	ColledatAécell	8	2	366		
(from	SCRIBE,	includes	QA/Q	6	0	285		
Private	Drinking	Lờ∕¢aticon	s Welmils	8	0	45		
Focus	Area			6	0	120		
Private	Drinking	Lovation	s W edi u	8	2	259		
Focus	Area			6	0	0		



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King

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Release

Table – Priv&ate **Drinking** Planatary MCL Extredidances U.S. Qty. Qty. Matrix Region (6 Sep (Cumulative) Within **Focus PAineet**e D 8 0 1 Water s Well Containing Contaminant Concentrations Above **MCLs** 1* 6 during **Event** Second Sampling Outside of : FocusPrivate Area 9 Water Wells Containing Contaminant Concentrations Above **MCLs** 6 during 0 Second Sampling Event

exceeded *Note: One inwell Region 6 the MCL for lead and aft Mexico and EPA. it was determined that the exceedance was

Private water wirdl Usampling ERMas Regiropleted 6 on 015 27 and Auguist 20 ongoing in U.S. EPA Region 6.

2.3.2 Water Mitigation

No public water systems are currently affected by the U.S. EPA purchased 2312, cases of bottled watesupptly the communityPublic support active completed are summarized below.

		le 4	-Public	Su	port	Summa	ry			
		100			5 Sep 2015			Cumulative		
Act	ivity	Entity		Deliveries (each)	Qty. (gal)	Qty. (hay	Deliveries (each)	Qty. (gal)	Qty. (hay b	
Potable	D Aditeerries	US	8EP	0	0			62,000		
		US	8EP	0	0		47	141,980		
Livestock	/ Ag	ric uls ural	ŒP				59	1,104,990		
Water	Deliveries	US	9EP	0	0		13	218,400	100	
		BIA*		0	0		7	975,888		
Agricultural	Food	US	ŒP	10.00			1		244	
Deliveries		US	9EP	0		0	14		5,376	

*Note: -BBh&au of Affairsndian delivereotable non - waterven to locations in the Navajo approximately 12 August 2015 to 31 August 2015.

Bulk water delivery in RegionBottled 8 whater bwean 3 realisabematers uentrovided Region 8 The Region 6 agriculture in and livestock tealto Augustdemobilitate ohave been no potable water deliveries the nor agsicultural EPA foodn by delications by U.S. in EPA Region 8.

The Southern Ute Indian Trinkeng wate(SalHdf) sharsk derliteered to dr tribal



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within	the	Rese	rvation	boundary.	datpproxim		umes	to	
Wicilli				·		weekaac. void	111103	10	
		cases		bottled					
•		water	•	_	s wavander		(210	, gallor	ns tot
• 8	8,000	gallons	erof	deblixMeries	wat(there	have I	been	no n	new re
			ısing S residences.		completed	the i	nstallation	of	14
					GK istmi ėc utive				
Bureau		-		•	BNA vajo pro		-		
livestock	c an	ıd ag	gr A cultural sur	mmanse.	of the	metrics	is	provided	below
•	From	12	August	t ø \	3deliveredAugust	ta 2 001 5a,Í	Bdf	approx	imately
1	water	to	seven	stations	located	throughout	i Nav	vajo N	lation.
•	The	seven	stations	that	received	water	were	designa [†]	ted a
ı	Gadii	Ahi,	Teec,	Aneth,	Pit/Mextcan	Val le værter	and	Mo	
• [n Bl a kverage				per
2.3.5	3 Other	Mitiga	tion A	ctivities					
U.S.	EPA	contin	ues to	o water cond	luodfünelkülty twiqoea	ıramet eda ily	m ea duitt	e nents Fishe	es,
LLC and	for	wardin res	sults t	. b J.S. theEf	PA ownoematinu	ues to	tronetmov	ve pondseď	limenfor
resident	: alc	ng t	the An	nimas f	River.				
:	2.3.4 Wate	er Ta	ank &A:	ssessm Dern tnobi	ilization				
On or	about	_	•		steel tanks		•	t be rtailEnRRS	
locations	is or	n the	a Nava	ajo Res	servation	as part	of	the	respons
these	tanks	is	reporte	ed to	have	a capa	acitv	of 16	5,500

is reported to have a capacity of 16,500 these tanks had beenit re**wes**ted rep**es**ted 13, to bu**t**he delivered EPA OSC tanks there were two additional tanks that had not previously been reported. These two tanks by ordered R6 personnel and were not being tracked by OSC confirmed the presence of additional tanks. these two

the Upper Fruitland On 19 August 2015, two tanks at the OSC 3 September 2015, On and START conducted an include the two tanks that had not been reported until

On September 2015, ilizedive by tanks the wereERRS demodontractor. tanks:

III.										
•	Tank	31L	Meadow	Farm	ıs	location	(This	tank	had	6,000
	the	Navajo	Nation	initia	lly	believed	was	contamin	ated)	
•	Tanks	913	and	907	Area	3	West	location	(these	tank
•	Tanks	914	and	906	New	Mead	ows	Location	(these	tanks



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The Bureau of Indian Affairs (BIA) delivered thewater tanks. Metrics for water works provided in Table 4 above.

3.0 PLANNING

3.1 Environmental Unit

The followingamplingpost documents have been issued.

	Activity				(6 Se	Qty. ep 2015	Cumulative
Validated	l Analytical	Results	Priv ate ter	8		0	17
Drinking	ater W	Well	Owners	(no6	MCL	0	О
exceedar	nce)	(Validat	ion da	te	n	or be	efore
August	2015)			9		N/A	N/A

cre Łaboeid (EU) exkistedance (xoff The Environmental n**ipir**ûkate well that owners not yet been contacted forwardedthe listto U.S. EPA Region 8 Drinking Water Senior **Employees** for diFencet o**£**PA Environmental libitone has contacta targe.S. 319 September, started making these calls on 3 2015.

3.2 Resources

The table biziesw staffingar numbers for the federal entities and response.



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King

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		Table 5 -Pe	rsonnel S	iteOn	
Region		A _E	sency /	Entity	Number Personnel (6 Sep
	U.S.	EPA			3
	U.S.	Coast	Guard		4
Mine	U.S.	EPA	Contractors		8
	U.S. rmy	/ A Corp	s of	Engineers	0
	U.S.	Geological	Surve	У	0
	U.S.	Bureau	of	Reclamation	0
	U.S.	EPA			27
ICDCK	U.S.	EPA	Contractors		24
ICPGK	USCG				3
	Other	Federal,	State,	Local	2
	U.S.	EPA			0
6	U.S.	EPA	Contractors		5
6	USCG				0
	Other	Fed ete ļ,	LSocal	and T	0
	U.S.	EPA			0
0	U.S.	EPA	Contractors		0
9	USCG				0
	Other	Federal,	State,	Local	0
	-			Total	66

No unmet critical resource needs reported.

4.0 FINANCE

4.1 Estimated Response Costs to Date

The table matriculars esstrimnated costs for the response.

	Table 6 Estimate	ed Response	Costs	Rep §epte mber a	as 2015of
Region	U.S. EPA Cumulative Expended P:	U.S. EPA Cumulative Expended T	U.S. EP Cumulative Other Cha	U.S. EPA Cumulative Contractors	Total Cumulative Costs
8	\$801,927	\$164,793	\$44,450	\$2,721,936	\$3,733,106
6	\$490,762	\$124,750	\$12,989	\$2,410,163	\$3,038,664
9	\$554,400	\$83,000	\$0	\$900,506	\$1,537,906
TOTAL	\$1,847,089	\$372,543	\$57,439	\$6,032,605	\$8,309,676

4.2 Estimated Burn Rates

The table below summarizes current estimated burn rates for



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Min

field

Table 7 - Esti	mated	Daily	E				
U.S. EPA	Estimated (as	BDai Sepf	ly 26015				
8		\$129,560					
6		\$42	L,990				
9		\$60,816 \$232,366					
Tota	al						

5.0 **LIOS**IS

off 268ceivænderhead As September 2015, Logistics has personnel requentats have been As of Regions Septe trober 10 off II. 2015, the retone enstate en filled. submitted to the h2e&ve are nine overhead personnel lleeb/opsts. Thosethat assigenendain tounfi the the field need to in -completeor protopolisenid goi**dgesi**gn **Yosto**t. athace quired also to safety briefing prior to reporting to the get а

6.0 SAFETY

be the number Besonnel hazardare Driving conttionues encouraged to when conducting field activities and driving around town. They should procedures factor in to dailythe driving time needed and distance workine shifand field

Work/Rest regimens need to be followed to reduce hTeakte leave **ICP** field activities. with you when you the for

ICPKG has a Incident Stress Manage@iseMt) p(ogram for personne/volvied Critical the 6 September 2015, ttheer Cesso vissits cen from response. response personnel. center 200 visiltas the CISM received

No recordable accidents whene 6 Septeme per ted 2015.

7.0 PUBLIC INFORMATION

7.1 Community Engagements

No community

engagements 6000epteedber on 2015.

Table 8	-Community	Engageme	nt Sur	
Desc	ription	U.S. EPA	Qty. (6 Sep 2015)	
		8	0	
Community	Engagements	6	0	
		9	0	



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ICP Gold

7.2 Anticipated Events: VIPs/Congressional Visi**Ps**ublic and Events

pubtho24 daysexrexits Known site visits and for summarized. below

	Table 9 -Ant	icipated	Site	Visits	ar	ıd	Public	
	I	Planned E	vent			Antici	pated Dat	
Update	meeting	with	La	Plata	ලා	unty	September	201
Meeting	wPtata	LaCounty	Tecl	nnical	Sub ît	mmit	te § eptember	20

Rel Stiamch 7.3 Community

Effective Aug2u3t 2015to the calls Regional (9726)1385 87600e)ntegrarding the Gold King Release Incident b**eliat**jonal directed (844 6027n9200).the The Call are National is now being operated U.S.A ERAtal alls-Mecoandeque cteiss@lelat c the Call Regional by Center itsy formeorperationArea ACc)mmandA (total of 223 calls during National Ch Centeduring its operatiby AC this include20 calls related to Regodn calls related Region 6 and 38 calls related 9. to to Region

8.0 LIAISON

Federal. regional local entatrineds optainet icipating in the response are sumr

U.S. **EPA**

U.S. Coast Guard (USCG)

Wildlife (USFWS) U.S. Fish and Services

Colorado ffice O Emeogency Management (OEM)

Colorado Department of **Public** Health and Environment (CDPHE)

New Mexico Environment Department (NMED) New Mexico (NM) Department of Health

Office NM of the State Engineer NM Department of Game and Fish

State of Utah State of Arizona

of City Durango La Plata County San Juan County

San BalsiamHealth Department County of – NeSwan Mexico

Southern Ute Indian Tribe (SUIT)

Navajo Nation

9.0 **SOURCE ADDITIONAL** INFORMATION OF

For additional information.epa.gore/feoldkingntione.



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ATTACHMENT 1
PRESS RELEASE



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NO PRESS RELEMSESWIBER FOR 2015 6



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ATTACHMENT 2
GOLD KING MINE STAKEHOLDERS ALEERT AND NOTIFICATION



GOLD KING MINE STAKEHOLDERS ALERT AND NOTIFICATION PLAN

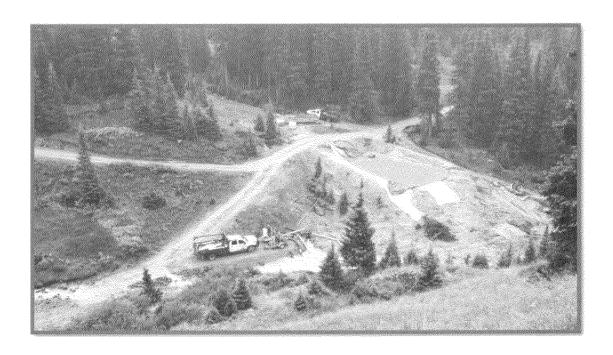
INCIDENT COMMAND GOLD KING (ICGK) 7 SEPTEMBER 2015

U.S. ENVIRONMENTAL PROFECTION AGENCY

Incident Commander, Chris Ruhl (R6)

Deputy Incident Commander, David Ostrander (R8)

Deputy Incident Commander, Peter Guria (R9)





Gold KingStakeholdiers Alert and Notification September 2015

ICGKM

Res

Incident:	EPA	Response	to	Gold	King	Mine	Release	Incider
Subject:	Gold King	Mine	Stakeł	nolders	Alert	and	Notification	Pla

Strategic Objectives

- 1. Notify stakeholders throughout the entire watershed of any mine redeted potentially that pact the wa
- 2. Intended to addewed the ntitialication and information

INTRODUCTION

The Gold Mine Stakeholders Wiert natify Natatik ferbatik dens Plamroughout King watershed Regions 8, 6 that coundd 9polityentipaaictim entire in antyhe mine watershed. The Plan also includes mínetificationelated only "activities ert sucfor а rainfall event. The Plan in its current form will remain athdis site. The Plan s intend**et**le ad dareel notifBcent/icomd is tofirst of infor initial notification, all parties are responsible for assessing the for notification. response and

int**end**ed Planning SceThaisioP:lan is to take the plane, opill emplemgse,ncy normal requirements necessary for life reporting or action safety

The framework Plan is of bat**leid** the existing on assumption that flows dilution. flow 1000cfs the timing and Αt measured of at а below Silverton, а spill or runoff event will likely take reach of river.

- 1. 30 minutes: Mine OperationsCity to limits Silverton
- 2. 30 minutes: Silverton to entrance of Animas River canyon
- 3. 10 hours: Animas River Canyon to Bakers Bridge
- 4. 10 hours: Baker's Bridge to Northern Durango city limits
- 5. 6 hours: Northern Durango City Limits to Southern Ute
- 6. 12 hours: Southern Ute Reservation Boundary to NM State

ALERT LEVELS

Notification Only

- affecting o An identified sitenon relanbeidne event Cement Creek that physical or posesafety a concern fgrbut downneswyream be users perceived as а negative ev,eom/tthe meblija. stakeholders, public This could include а precipitation causing discolora event
 - to mine operations, storm event that cause may other event that could cause . limited discolo or any



Gold KingStakeho**Mirrs** Alert and Notification September 2015

ICGKM

Alert I

- An identified event at the minephysicalitesafety that is concern, but may be negative by independent substituted. Cheyment the Creek.
- This include limited could а or temporary release may wastewater that be identifiable ledgenrough or operlatervation know or direct measurements of , or turbidity mine thantvaste coulddischargenceur in the tatiodsGS Selfantiging S above
- include This could also identification of а storm causing significant runoff leading to discoloration through Animas River identified abo

Alert II

- o An identified event that produtic happearceoptionlimitedownstreamegative users for physical enainednmental seffect
- This could include a failure of treatment systems operations.
- o This collide im surge of mine waste that overcomes period.
- o This could include а storm that would major event drainages and large amounts of mine waste sediment widespread identifiable turbidity and. discoloration

Alert II I

- o This will include are all or eventwill **shalle**ely envaluosementallarge physical **e**lffeets.
- This will include events an extsrective as an dalister rorismevent or shutting operations.
- o This will include additional fablures, immimetatrophicmine slopedump failu similar event.

NOTIFICATION PROTOCOL

Notification Only

o On site - OSC to in notifywaithgin EPA 1 ICP hour of identified o EPAIC to ine neddterm to log in daily Situation Report

EPA ICP to mail Etakeholder list (attached) by end of day.

Response

and

Alert I

- On site OSC to notify houePA of ICP idew/thend anedvent. Durang Command Staff to be EPAOKOPPed if ication/within 1 hour of
- o This willent be logged in daily SITREP.
- o EPA P to ECmail to stakeholder lis€PA ICP within notificatinen hour
- Stakeholder agencies should be notified by end of occurs after 6PM
- EPA ICP to ategy hold meetstrig and determine need for downs sampling.

Alert II

- o On site OSC to notify EPAurango ICP Commondand soon Staff as praces should be notified EPAWOFhin notification bounds.
- o On site OSC should attempt immediate phone contact with contact should be requested through radio link to
- o This weilent be logged . in daily SITREP
- DEPAIC to mail-send to Estakeholder upohisEPAICP immedhattæfication.
- Stakeholder agencies should be verbally noticed within one hou
 contact per agency is necessary.
- EPAICP to hold strategy meeting to determine downstreaments and actiliation of the

Alert III

- o On site OSC to notify EPAurango ICP Commodand soon Staff as practically upon ICP notification.
- On site OSC should attempt immediate phone contact with contact should uested be through radio link to CSP Montrose
- o EPAIC should make notification to the 88014ational
- o On site C OSEPANICP should desintadolish commencialnication.
- o This weilent be logged . in daily SITREP
- o EPA Imail to stakeh folder list im Moediately notification. EPA
- o Stakeholder agencies should be verbally notified by EPA ICP one contact per agency is necessary.
- o EPA ICP to hold strategy meeting nitotrong deater d/rone sadropalinsgress needs and activation of the JIC.
- o EPA dfiedule to stakeholder briefing as soon as practical.